

815745

1 30473/RDS/S61

**ROCK BIT WITH HARDFACING MATERIAL INCORPORATING  
SPHERICAL CAST CARBIDE PARTICLES**

5

**Abstract of the Disclosure**

25 An improved hardfacing for teeth and other surfaces of milled tooth rock bits <sup>includes</sup> comprises  
RDS steel in the range of from 20 to 50 percent by weight, and filler in the range of from 50 to 80  
percent by weight. The filler <sup>includes</sup> is ~~comprises~~ spherical cast tungsten carbide particles alone or in  
10 a mixture of other tungsten carbide particles such as crushed cast spherical or crushed cemented  
tungsten carbide, macrocrystalline tungsten carbide, or the like. The single crystal monotungsten  
tungsten carbide particles have a particle size in the range of from 16 to 40 mesh and/or in the  
range of from 80 to 200 mesh.

15

MHL PAS73093.4-\* -3/12/97 10:17 am

20

25

30

35

2025-04-03 10:17:00